Job Risk Assessment

Name(s) of Risk Team Members: P. Cirnigliaro, Y. Makdisi	**Point Value → Parameter ↓**	**1**	**2**	**3**	**4**	**5**
Job Title: Assembly and Testing of Detectors **Job Number or Job Identifier:** JRA 33-08	**Frequency (B)**	**≤once/year**	**≤once/month**	**≤once/week**	**≤once/shift**	**>once/shift**
Job Description: RPC Detector Assembly	**Severity (C)**	**First Aid Only**	**Medical Treatment**	**Lost Time**	**Partial Disability**	**Death or Permanent Disability**
Training Procedures List (Optional):	**Likelihood (D)**	**Very Unlikely**	**Unlikely**	**Possible**	**Probable**	**Multiple**
Approved by: E. Lessard **Date:** 5-7-08 **Rev. #:** 0						
Stressors (if applicable, please list all)		**Reason for Revision (if applicable):**			**Comments:**	

			Before Additional Controls							After Additional Controls						
Activity	**Hazard**	**Control(s)**	**Stressor**	**# of People A**	**Frequency B**	**Severity C**	**Likelihood D**	**Risk* AxBxCxD**	**Control(s) Added to Reduce Risk**	**Stressors**	**# of People A**	**Frequency B**	**Severity C**	**Likelihood D**	**Risk* AxBxCxD**	**% Risk Reduction**
Manual Transferring of detector module box components for assembly	Overexertion – injuries caused by excessive pulling pushing, lifting	Back safety training, work planning, multiple person lift.	N	2	4	1	2	16								
Manual Transferring of detector module box components for assembly	Sharp edges – hand injuries	Proper selection of PPE (cut –resistant gloves), work planning.	N	2	4	1	2	16								

Job Risk Assessment

Manual Transferring of detector module box components for assembly	Falls to same level	Proper selection of PPE (slip-resistant shoes), good housekeeping, adequate lighting, work planning.	N	2	4	1	2	16									
Cutting copper foil and Mylar foil	Repetitive motion injury, laceration, puncture, abrasions	Training, adequate lighting, housekeeping, use of procedures, work planning.	N	1	4	1	2	8									
Soldering of signal cables to readout strip and ground plane.	Burns	PPE, training, adequate lighting, housekeeping.	N	1	4	1	2	8									
Soldering of signal cables to readout strip and ground plane.	Exposure to fumes	PPE, adequate ventilation.	N	1	4	1	1	4									
Soldering of signal cables to readout strip and ground plane.	Fire	Fire detection systems, housekeeping, minimize fie loading in local area.	N	1	4	1	1	4									
Assemble detectors into module box using hand tools.	Repetitive motion injury, laceration, puncture, abrasions	Training, adequate lighting, housekeeping, use of procedures, work planning.	N	1	4	2	2	16									

Job Risk Assessment

Final Assembly of detector modules.	Overexertion – injuries caused by excessive pulling pushing, lifting	Back safety training, multiple person lift, use of mechanical aids, work planning.	N	2	4	2	2	32								
Final Assembly of detector modules.	Falls to same level	Proper selection of PPE (slip-resistant shoes), good housekeeping, adequate lighting, work planning.	N	2	4	2	2	32								

***Risk:**	**0 to 20**	**21 to 40**	**41-60**	**61 to 80**	**81 or greater**
	Negligible	**Acceptable**	**Moderate**	**Substantial**	**Intolerable**

Further Description of Controls added to Reduce Risk: Standard Operating Procedures used to operate High Voltage system, PHENIX Procedure No. PP-2.5.2.15-02 RPC HV and LV OPS in the RPC Factory.